

MAY 03 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S) Gelfman et al

:

SERIAL NO.: 10/605,251

FILING DATE: September 18, 2003

TITLE: Ferroelectric Single Crystal Resonator And Methods For Preparation And Use
Thereof

CERTIFICATE OF TRANSMISSION/ MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being facsimile transmitted to the USPTO or deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this day of May 3, 2005.

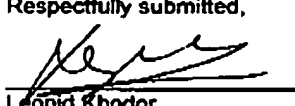
Leonid Khodor

Commissioner for Patents
P.O. Box 1450,
Alexandria, VA 22313-1450

Sir:

Submitted herewith is/are:

1. Transmittal Form;
2. Supplemental Amendment to the Office Action mailed from the U.S. Patent and Trademark Office on February 9, 2005 – 10 pages.

<h1 style="margin: 0;">TRANSMITTAL FORM</h1>	Application Serial Number	10/605,251
	Filing Date	September 18, 2003
	First Named Inventor	Ilia Geifman
	Group Art Unit	1755
	Examiner Name	David M. Brunsman
	Attorney Docket No.	
	Patent No.	Not applicable
	Issue Date	Not applicable
ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <div style="margin-left: 20px;"> <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form </div> <input checked="" type="checkbox"/> Amendment/Response <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Preliminary </div> <div style="margin-left: 20px;"> <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____] </div> <input type="checkbox"/> Petition for Extension of Time <div style="margin-left: 20px;"> <input type="checkbox"/> Information Disclosure Statement </div> <div style="margin-left: 40px;"> <input type="checkbox"/> Form PTO-1449 <input type="checkbox"/> Copies of IDS Citations </div> <input type="checkbox"/> Certified Copy of Priority Document(s) <div style="margin-left: 20px;"> <input type="checkbox"/> Sequence Listing submission </div> <div style="margin-left: 40px;"> <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Statement verifying identity of above </div>	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553) <div style="margin-left: 20px;"> <input type="checkbox"/> Request For Continued Examination (RCE) Transmittal </div> <input type="checkbox"/> Copy of Notice of Draftsperson's Patent Drawing Review <div style="margin-left: 20px;"> <input type="checkbox"/> Formal Drawings </div> <input type="checkbox"/> Terminal Disclaimer <div style="margin-left: 20px;"> <input type="checkbox"/> Executed Declaration and of Attorney for Utility or Design Patent Application </div> <input type="checkbox"/> Small Entity Statement <div style="margin-left: 20px;"> <input type="checkbox"/> CD(s) for large table or computer program </div> <input type="checkbox"/> Amendment After Allowance <div style="margin-left: 20px;"> <input type="checkbox"/> Request for Certificate of Correction </div> <div style="margin-left: 20px;"> <input type="checkbox"/> Certificate of Correction (in duplicate) </div>	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <div style="margin-left: 20px;"> <input type="checkbox"/> Appeal Brief (in triplicate) </div> <input type="checkbox"/> Status Inquiry <div style="margin-left: 20px;"> <input type="checkbox"/> Return Receipt Postcard </div> <input type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8 </div> <input type="checkbox"/> Additional Enclosure(s) (please identify below) <div style="margin-left: 20px;"> <input type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Copy of Filing Receipt with changes noted thereon. </div>
CORRESPONDENCE ADDRESS		SIGNATURE BLOCK
Direct all correspondence to: Leonid Khodor 4920 Brainard Rd., Orange, OH 44022 Tel. No.: (440) 248-6024 Fax No.: (440) 248-6011		Respectfully submitted,  Leonid Khodor Agent for Applicants 4920 Brainard Rd., Orange, OH 44022

Serial No. 10/605,251
Response to Office Action

- 1 -

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Geifman *et al.*

SERIAL NUMBER: 10/605,251

ART UNIT: 1755

FILING DATE: September 18, 2003

EXAMINER: David M. Brunsmann

TITLE: FERROELECTRIC SINGLE CRYSTAL RESONATOR AND METHODS FOR
PREPARATION AND USE THEREOF

Commissioner for Patents
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Alexandria, VA 22313-1450

SUPPLEMENTAL AMENDMENT

This paper is a supplemental amendment to the Office Action, mailed from the U.S. Patent and Trademark Office on February 9, 2005, for which the period set for response ends on May 9, 2005. Applicants believe that no extension-of-time or related fee is required for this Supplemental Amendment to be entered and considered. Applicants respectfully request entry of this Supplemental Amendment, reconsideration and withdrawal of all grounds of rejection and objection, and passage of the case to allowance.

Please amend the application, without prejudice, as follows:

IN THE CLAIMS:

Please amend claims 1-29 as follows:

1. (Withdrawn) A ferroelectric single crystal, consisting essentially of:
the potassium tantalate; and
the alkali metal or the group (V) metal;
said alkali metal substitutes for from about 1% to about 3% of the potassium, said group (V) metal substitutes for a part of the tantalum; and
said single crystal having cubic form of perovskite crystalline structure is essentially free of impurities and defects.
2. (Canceled) The single crystal according to claim 1, wherein said alkali metal is lithium, whereby forming a $K_{(0.97 - 0.99)}Li_{(0.03 - 0.01)}TaO_3$ composition.